PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER A	CTION	See Form PCT/IPEA/416					
H151201D01P	POR PORTIER,	CIAON	See Point C1/11 EAS-10					
International application No.	_	ate (day/month/year)	Priority date (day/month/year)					
PCT/JP2003/016304		003 (19.12.2003)						
International Patent Classification (IPC) or national classification and IPC C22C 38/00, B22C 9/06, B22D 17/22, C22C 38/38, 38/60								
Applicant DAIDO STEEL CO.,LTD								
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. This REPORT consists of a total of	2. This REPORT consists of a total of sheets, including this cover sheet.							
K	k——							
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
beyond the disclos	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the							
Supplemental Box		total of (indicate tyr	as and number of electronic corrier(c))					
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the								
Administrative Instructions).								
4. This report contains indications relati	4. This report contains indications relating to the following items:							
Box No. I Basis of the reg	oort							
Box No. II Priority								
Box No. III Non-establishm	nent of opinion with re	egard to novelty, inventi	ive step and industrial applicability					
Box No. IV Lack of unity o								
	ment under Article 35 cplanations supporting		ty, inventive step or industrial applicability;					
Box No. VI Certain docume	-	, July Description						
Box No. VII Certain defects in the international application								
Box No. VIII Certain observations on the international application								
Date of submission of the demand		Date of completion of this report						
20 June 2005 (20.06.2005)		28 November 2005 (28.11.2005)						
Name and mailing address of the IPEA/JP		Authorized officer						
Foodimile No.		Talanhana No						

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/016304

Box No). I	Basis of the report						
1. With othe	regard	to the language, this report is based on the international application in the language in which it was filed, unless licated under this item.						
	This which	This report is based on translations from the original language into the following language, which is language of a translation furnished for the purpose of:						
	international search (under Rules 12.3 and 23.1(b))							
		publication of the international application	on (under Rule 12.4)					
international preliminary examination (under Rules 55.2 and/or 55.3)								
			·					
jurni	snea to are not	regard to the elements of the international application, this report is based on (replacement sheets which have been shed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" are not annexed to this report): The international application as originally filed/furnished						
\boxtimes	the de	escription:						
	pages 1,3,5,6,9,10,13,15-17			, as originally filed/furnished				
	pages	* 2,2/1,4,7,8,11,12,12/1,14	received by this Authority on	14 November 2005 (14.11.2005)				
	pages	*	received by this Authority on	(2 112.12.000)				
\boxtimes	the cl	aims:						
	pages		6,7	on outsing the file different at a 1				
	pages	· · · · · · · · · · · · · · · · · · ·		, as originally filed/furnished gether with any statement) under Article 19				
	pages	The second secon	received by this Authority on	14 November 2005 (14.11.2005)				
	pages	······································	received by this Authority on	14 NOVEMBER 2003 (14.11.2003)				
	41							
		the drawings;						
	pages pages	*		, as originally filed/furnished				
	pages		received by this Authority on					
			received by this Authority on					
	a sequ	sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.						
3. 🗌	The ar	mendments have resulted in the cancellation	on of:					
		the description, pages						
	=							
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
	made, (Rule '	eport has been established as if (some of, since they have been considered to go 70.2(c)). The description, pages	beyond the disclosure as filed, as	report and listed below had not been indicated in the Supplemental Box				
* If item	4 appl	ies, some or all of those sheets may be ma	rked "superseded."					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/16304

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement			-
Novelty (N)	Claims	1-7	YES
	Claims		NO
Inventive step (IS)	Claims	1-7	YES
	Claims		NO NO
Industrial applicability (IA)	Claims	1-7	YES
	Claims		NO

Citations and explanations

Document 1: JP 56-54379 B2 (Hitachi Metals, Ltd.), 25

December 1981

Document 2: JP 8-164465 A (Daido Steel Co., Ltd.), 25

June 1996

Document 3: JP 2002-121643 A (Hitachi Metals, Ltd.), 26

April 2002

Claims 1 to 7

The inventions set forth in claims 1 to 7 are not disclosed in any of the documents that are cited in the international search report; therefore, the inventions in question are novel and involve an inventive step. In particular, the feature of increasing the amount of nitrogen that is added to hot work tool steel like the steel from the invention that is set forth in the present application and the feature of configuring so that only 0.3% by weight or less of vanadium is added thereto are not disclosed in any of the abovementioned documents; however, the inventions that are set forth in the present application exhibit an advantageous effect whereby it is possible to improve the dissolution resistance characteristics of the hot work tool steel as a result of the features in question.